



Europäisches Patentamt European Patent Office Office européen des brevets



(11) EP 1 228 713 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 26.03.2003 Bulletin 2003/13

(51) Int Cl.7: A44B 19/34, A44B 19/42

- (43) Date of publication A2: 07.08.2002 Bulletin 2002/32
- (21) Application number: 02250680.2
- (22) Date of filing: 31.01.2002
- (84) Designated Contracting States:

 AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU

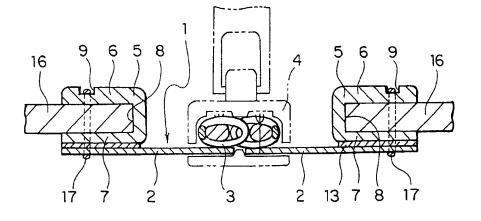
 MC NL PT SE TR

 Designated Extension States:

 AL LT LV MK RO SI
- (30) Priority: 31.01.2001 JP 2001023927
- (71) Applicant: YKK CORPORATION Chiyoda-ku, Tokyo (JP)

- (72) Inventors:
 - Tominaga, Yutaka
 Shimoniikawa-gun, Toyama-ken (JP)
 - Takizawa, Toshiaki Kurobe-shi, Toyama-ken (JP)
- (74) Representative: Luckhurst, Anthony Henry William et al MARKS & CLERK, 57-60 Lincoln's Inn Fields London WC2A 3LS (GB)
- (54) Slide fastener and manufaturing method therefor
- (57) Both sides of a fastener chain may be reinforced and an attachment object such as a bag or a case may be mounted in a stabilized condition. A reinforcement member (5), which is molded of thermoplastic resin, thermoplastic elastomer or synthetic rubber in the form of a turned-down U shape in its cross section and has an appropriate plasticity and flexibility, is bonded along both outer sides of a fastener chain (1) with a thermal welding resin film (13). The reinforcement member
- (5) has a mounting groove (8) which enables a cloth of the attachment object (16) such as the bag or the case to be mounted and further contains a concave groove (9) for a sewing thread, provided in the surface thereof. The cloth of the attachment object (16) is inserted into the mounting groove (8) and sewed along the concave groove (9) with a sewing thread (17). Consequently, the reinforcement member (5) can be mounted simply in a stabilized condition and can ensure a long term use.

FIG. 3





EUROPEAN SEARCH REPORT

Application Number EP 02 25 0680

Category	Citation of document with it of relevant passes	ndication, where appropriate, iges	Relevant to claim	CLASSIFICATION OF THE APPLICATION (In1.Cl.7)
Х	GB 802 981 A (WILL)	IAM JAMES PAUL STENERS LTD; HENRY DAVI 1958 (1958-10-15)	1,4	A44B19/34 A44B19/42
A	* page 2, line 15	- line 41 *	7,8	
X	US 2 288 105 A (PLC 30 June 1942 (1942- * column 1, line 44 figure 5 *		1	
A	EP 0 875 167 A (YKM 4 November 1998 (19 * page 4, line 58 - 12; figures 1,2 *		6 m	
A	6 March 1990 (1990-	DERICK KEVIN ET AL) 03-06) 5 - line 59; claim 1;	6	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
A	DE 42 12 209 A (MEI 14 October 1993 (19 * claims 12-16; fig	93-10-14)	6-8	A44B A45C
A	US 3 925 858 A (THA 16 December 1975 (1 * figures 1,2 *		1-5	
	The present search report has be	peen drawn up for all olaime Date of completion of the search		Examiner
	MUNICH	23 January 2003	Hor	rubala, T
X : partic Y : partic dooui	TEGORY OF CITED DOCUMENTS cularly relevant if taken alone outarly relevant if combined with anoth ment of the same category to locical background	T : theory or princip E : earlier patent de after the filing de or D : document alted L : document alted	le underlying the locument, but publi te in the application for other reasons	invention
	written disolosure	& : member of the		

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 02 25 0680

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

23-01-2003

Patent docume cited in search re		Publication date		Patent fami member(s		Publication date
GB 802981	Α	15-10-1958	FR	1135659	A	02-05-1957
US 2288105	Α	30-06-1942	NONE			
EP 0875167	A	04-11-1998	JP BR CN EP KR	10295418 9801976 1197725 0875167 257980	A A .B A2	10-11-1998 09-11-1998 04-11-1998 04-11-1998 01-06-2000
US 4906310	Α	06-03-1990	NONE			
DE 4212209	A	14-10-1993	DE	4212209	A1	14-10-1993
US 3925858	A	16-12-1975	NONE			

For more details about this annex: see Official Journal of the European Patent Office, No. 12/82